
Transit Asset Management Plan (TAM)

4-year Tier II Group Plan Update Kickoff
Webinar



Agenda

- TAM Background
- Required Elements
- Plan Responsibility
- Tier II Group Plan
 - » *Review*
 - » *Participation*
 - » *Elements*
- Facility Inventories
- TransAM
- Next Steps



Background - FTA

- (MAP-21) required FTA to develop rules to establish a system to monitor and manage public transportation assets to improve safety and increase reliability and performance, and to establish performance measures.
- FTA issued the Final TAM Rule on July 26, 2016 requiring a TAM Plan for all service providers who receive federal funding (5307 and/or 5311).
- Purpose of the final rule is to help achieve and maintain a state of good repair (SGR) for the nation's public transportation assets.
- Transit asset management is a business model that uses transit asset condition to guide the optimal prioritization of funding. Currently, there is an estimated \$85.9 billion transit SGR backlog (Source FTA).

Background - Policy

- First TAM Plans were approved in 2018
- TAM plans must be updated in their entirety at least once every 4-years
- Updates must be approved by **October 2022**
- The 2020 amendments to a TAM plan did not replace the required comprehensive update
- Ongoing facility evaluation
 - » *Annual high-level self reported evaluation*
 - » *Detailed evaluation every 4-years (25% of facilities each year)*

Who Must Comply with TAM?

- All recipients or subrecipients of Federal financial assistance under 49
- U.S.C. Chapter 53 that own, operate, or manage capital assets used in the provision of public transportation
 - » *Includes all assets used in the provision of public transit. Not just federally funded assets*
 - » *Includes vanpool assets owned or directly operated by a recipient.*
 - » *Only assets in revenue service required*
 - (Spare, out of service or disposed are not included)
 - » *Does not include non-dedicated assets*

Background - Requirements

- TAM rule provides two tiers of requirements based on sizing criteria:

Tier I	Tier II
Operates rail OR ≥ 101 vehicles across all fixed route modes OR ≥ 101 vehicles in one non- fixed route mode	Subrecipient of 5311 funds OR American Indian Tribe OR ≤ 100 vehicles across all fixed route modes OR ≤ 100 vehicles in one non-fixed route mode

Background -Elements

- Elements of a TAM plan are dictated by the FTA rule and are:

1. <i>Inventory of Capital Assets</i>	Tier I & II
2. <i>Condition Assessment</i>	
3. <i>Decision Support Tools</i>	
4. <i>Investment Prioritization</i>	
5. <i>TAM and SGR policy</i>	Tier I
6. <i>Implementation Strategy</i>	
7. <i>List of Key Annual Activities</i>	
8. <i>Identification of Resources</i>	
9. <i>Evaluation Plan</i>	

- Elements 1-9 apply to Tier I agencies. Tier II agencies are only required to complete elements 1 through 4.

Plan Responsibility

A Tier I agency:

- Must develop, maintain, and sign off on their own TAM plans

A Tier II agency:

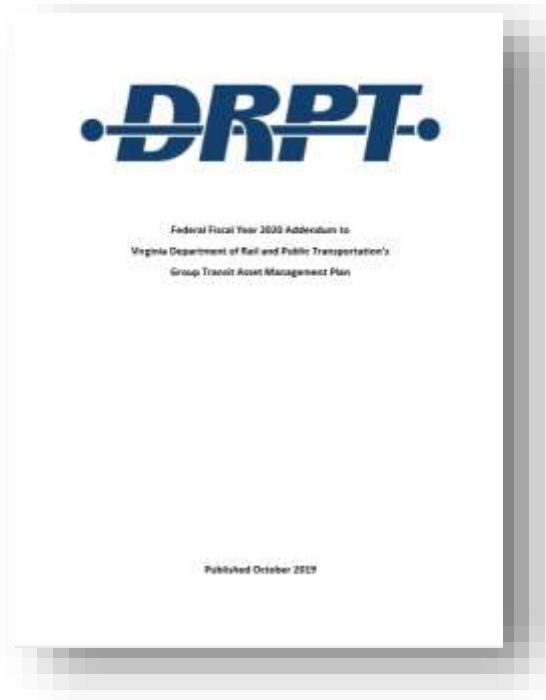
- All 5311 agencies **must participate** in a group plan
- 5307 funded agencies meeting the Tier II criteria may:
 - » *May develop their own plan, or*
 - » *Opt in to participating in a Group Plan*
 - DRPT will provide invitation letters that must be signed by an agencies designated Accountable Executive by **January 18, 2022**

All agencies must designate an Accountable Executive who will sign the participation letter and the final TAM plan (director, chief of transit, etc)

Tier 2018 II Group Plan in Review

- First TAM Plan was approved by participating agencies in 2018
- Amended in 2020 to include Arlington County
- Set targets for plan year-1 and then year-2
- Year-2 targets were carried forward through years 3 & 4
- Relied on asset inventories available in TransAM at the time:
 - » *Rolling stock: revenue vehicles*
 - » *Equipment: non-revenue support-service and maintenance vehicles*
 - » *Facilities: Maintenance and administrative facilities; and passenger stations (buildings) and parking facilities*
- TAM plan went into effect before MERIT was fully implemented

2022 Tier II Group Plan



Who Can Participate?

- **5311 agencies**
 - » *Required to participate a Tier II group TAM plan*
- **5307 small urban agencies**
 - » *May request participation in the group plan*
 - » *DRPT will accept participation from all eligible 5307 agencies meeting the Tier II requirements*
- **How to opt in, or confirm participation**
 - » *DRPT will provide template letter*
 - » *Letters must be signed by the agency Accountable Executive and returned with this years TDP/TSP update letters*
 - » ***Deadline is January 18th***
 - **If we do not hear from you by January 18th you agency will not be included in the Tier II Group Plan.**

What Makes it a TAM Plan?

- **Documentation of planning elements 1 through 4**
 1. *Asset inventory*
 2. *Condition assessment*
 3. *Decision support tools*
 4. *Prioritized list of investments*
- **TAM is a data-driven process and requires accurate information about vehicles and facilities**
 - » *List of revenue vehicles by age/ mileage*
 - » *List of equipment by age/mileage*
 - » *Facility condition rating (TERM rating)*

Plan Elements Matrix

Required TAM Plan Elements	Brief Description	DRPT Program or Process
Asset Inventory	A register of capital assets and information about those assets	TransAM
Conditions assessment of Assets	A rating of the assets' physical state; to be completed for assets an agency has direct capital responsibility for; should be at a level of detail sufficient to monitor and predict performance of inventoried assets	TransAM Age and mileage for vehicles Condition ratings for facilities
Description of Decision Support Tool	An analytic process or tool that (1) assists in capital asset investment prioritization and/or (2) estimates capital needs over time	MERIT, TDP/TSP(s), and Capital budgets
Prioritized list of investments	A prioritized list of projects or programs to manage or improve the SGR of capital assets	MERIT

Draft Plan Schedule

Task	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct
Opt into plan												
Asset Inventory*												
Condition Assessment												
Target Setting												
Decision Support Tool												
Draft Plan												
Final Plan												
Agency Approval												
Engagement Schedule				1	2	3						

1: Existing Conditions and targets | 2: Revised Targets | 3: Draft plan

2021 TAM Targets- Vehicles

Asset Class	Quantity	ULB Goal	FFY 2021 Goal % (From TAM Plan)	# At or Past ULB	% Past ULB	Avg Age
Articulated Bus	17	14	15%	4	24%	3.91
Over-the-Rd Bus	64	14	15%	1	2%	5.45
Bus	476	14	10%	52	11%	8.01
Cutaway	687	10	10%	30	4.0%	4.18
Minivan	41	8	20%	16	39%	6.93
Van	42	8	20%	16	38%	6.71
Equipment-Service Vehicles						
Automobiles	145	8	25%	56	38%	7.13
Trucks & other	10	14	25%	3	30%	12.50

2021 TAM Targets- Facilities

Asset Class	Quantity	TERM Goal	FFY 2021 Goal % (From TAM Plan)	# At or past TERM	% Past TERM
Administration	27	3.0	10%	2	7.4
Maintenance	12	3.0	10%	3	25
Passenger	6	3.0	10%	0	0

Annual TAM Tasks

1. Facility Condition Assessments
2. Asset Inventory Updates (TransAM)
3. NTD Reporting

TAM Facilities Assessment

- TAM plan participants are included in DRPT's annual facility assessment
- Qualifying facilities must receive:
 - » A high-level self assessment annually
 - » A detailed review performed by DRPT + partners *once in a 4 year cycle*
- These assessments focus on the state of several different components:
 - » Substructure, shell, interiors, conveying systems, plumbing, HVAC, Fire Protection, Electrical, Equipment and Furnishings, Building Sitework + Special Construction, and Fare Collection
- TAM plan participants will have an opportunity to review their detailed rating before finalizing the annual TAM Facility report- these reports are for internal use.
- TAM Facility ratings will be updated in TransAM
 - » DRPT coordinating a data review and cleanup of facility information
- TERM scores reported to NTD

Asset Inventory

- **TransAM is our single source of truth dataset for all asset condition data**
 - » *Twice annual data updates (minimum)*
 - July, 15
 - January, 15
- **Capital Assets**
 - » *Revenue Vehicles*
 - Age, Mileage
 - » *Equipment*
 - Service Vehicles
 - Equipment over \$50,000 in cost
 - » *Facilities*
 - TERM scores
 - High-level self assessments (Annually, October)
 - Detailed assessment (once every 4 years- DRPT consultant)

Data Integrity Project

- Goal To improve consistency in how transit and human service vehicles are categorized in the TransAM database
- Focused on “Categorical” Fields:
 - » Class – Refers to the overall grouping of vehicles
 - » Type – Refers to the FTA designated vehicle type for federal programs and TAM Planning
 - » Sub-Type – Defines the character of a vehicle and dictates the DRPT approved replacement policies

Data Integrity Project

- **Changes went live on September 22, 2021**
 - » *TransAM Version 2.16 Update*
- **What has changed:**
 - » *All Revenue Vehicles in TransAM assigned a new Asset Sub-type*
 - » *All Support Vehicles in TransAM assigned a new Asset Sub-type*
 - » *The Replacement Policies in TransAM will be updated for all Sub-types*
 - » *All newly entered assets will be subject to hierarchy rules that limit selections for Class, Type, and Subtype*
 - The “TransAM Sub-Type Selection Guide” is available to guide Sub-type selection

TAM and NTD

- Each entity developing a TAM Plan will have to report annually to FTA's National Transit Database (NTD). This submission should include:
 1. *Projected targets for the next fiscal year; - Provided by the group plan sponsor (for Tier II Group Plan participants)*
 2. *Condition assessments and performance results; and*
 3. *A narrative report on changes in transit system conditions and the progress toward achieving previous performance targets. - Provided by the group plan sponsor (for Tier II Group Plan participants)*
- Tier II agencies participating in a group plan **must request permission to join the sponsors plan in TrAMS**
- Full reporters must continue reporting their assets to NTD
- Reduced reporters report their assets to NTD through DRPT

TAM v. NTD Requirements

TAM Plan & NTD reporting requirements are similar, but not the same

TAM Plan Reporting

- Rolling Stock
- Non-revenue service vehicles
- Facilities
- Equipment Assets over \$50,000
(something that you would take with you if you were to move facilities)
- All public transit assets regardless of capital responsibility (with the exception of equipment)

NTD Reporting

- Rolling Stock
- Non-revenue service vehicles
- Facilities

Useful Life Benchmarks

- The TAM ULB refers to the maximum age of the asset, or the point at which the asset enters the state of good repair backlog. **The ULB is used solely for setting state of good repair performance measure targets for equipment and rolling stock asset categories.**
- Useful life benchmark (ULB) differs from Useful life (UL) used by DRPT for the MERIT process as UL is the minimum age/mileage at which an asset becomes eligible for replacement under the MERIT SGR program
- **Agencies should be reporting ULB benchmarks in NTD and not UL**

Useful Life Benchmarks

	Vehicle Type	Default ULB (yr)
AB	Articulated Bus	14
AO	Automobile	8
BR	Over-the-road-bus	14
BU	Bus	14
CU	Cutaway Bus	10
SV	Sport Utility Vehicle (pickup truck)	8
VN	Van	8
	Other Rubber-tire vehicles	14

Source: FTA Asset Inventory Reporting Manual

Projected Targets – FFY2021

No change in targets for FFY2021

Asset Category - Performance Measure	Asset Class	2020 Target*
Revenue Vehicles		
Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	AB - Articulated Bus	15%
	BU - Bus	10%
	CU - Cutaway	10%
	MB - Minibus	20%
	BR - Over-the-Road Bus	15%
	TB - Trolley Bus	10%
	VN - Van	25%
Equipment		
Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	Non Revenue/Service Automobile	25%
	Trucks and other Rubber Tire Vehicles	25%
Facilities		
Condition - % of facilities with a condition rating below 3.0 on the FTA TERM Scale	Administrative and Maintenance Facility	10%
	Administrative Office	10%
	Maintenance Facility	10%
	Passenger Facilities	10%

Next Steps

- **Signed letters of agency intent provided to DRPT**
 - » *By January 18 along with TDP update letter*
- **NTD/TrAMS Update**
 - » *Request participation in the group plan*
- **TransAM Inventory Update**
 - » *By February 1*
 - Vehicles in revenue service
 - Equipment (service vehicles)
 - Facilities (TEM Score from facility review)
- **Target setting**
- **Plan draft**
- **Approval**

Questions?



Contact information:

Wood Hudson

Statewide Transit Planner

Wood.Hudson@drpt.Virginia.gov

804-655-4567

Website:

DRPT TAM:

<http://www.drpt.virginia.gov/transit/major-initiatives/transit-asset-management-plan/>

FTA:

<https://www.transit.dot.gov/TAM>